

Appl No. 10/669,385
Reply to Office Action of June 19, 2006
Amendment Dated: September 15, 2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Canceled)
2. (Currently Amended) A hardened voyage data recorder according to claim 8 **[[1]]**, wherein: said electronic circuits provide an ETHERNET access port for coupling said hardened voyage recorder to an ETHERNET network.
3. (Original) A hardened voyage data recorder according to claim 2, wherein: said electronic circuits include firmware which provides TCP/IP access over ETHERNET to said circuits.
4. (Original) A hardened voyage data recorder according to claim 3, wherein: said firmware includes web pages for configuring said hardened voyage data recorder.
5. (Currently Amended) A hardened voyage data recorder according to claim 8 **[[1]]**, wherein: said mounting base subsystem includes at least one watertight cable connector.

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6. (Original) A hardened voyage data recorder according to claim 2, wherein: said mounting base subsystem includes a first watertight cable connector for coupling with a power supply and a second cable connector for coupling with an ETHERNET network.
7. (Currently Amended) A hardened voyage data recorder according to claim 8 [[1]], wherein: said electronic circuits accept both 110/220 VAC and 24 VDC power supplies.
8. (Currently amended) A hardened voyage data recorder ~~according to claim 1~~, further comprising:
- (a) a removable memory subsystem;
 - (b) a mounting base subsystem removably coupled to said memory subsystem, wherein said mounting base subsystem protects and includes therein electronic circuits, including a plurality of circuit components mounted entirely within said mounting base, for electronically accessing said memory subsystem; and
 - (c) a quick release clamp, wherein said removable memory subsystem has a lower flange, said mounting base subsystem has an upper flange, and said quick release clamp engages said upper flange and said lower flange whereby said memory subsystem and said base subsystem are removably coupled to each other.

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9. (Original) A hardened voyage data recorder according to claim 8, wherein: said quick release clamp has two quick release levers.
10. (Currently Amended) A hardened voyage data recorder according to claim 8 [[1]], wherein: said removable memory subsystem includes non-volatile memory enclosed within a boiler.
11. (Canceled)
12. (Currently Amended) A hardened voyage data recorder according to claim 14 [[11]], wherein: said mounting base subsystem includes at least one watertight cable connector.
13. (Currently Amended) A hardened voyage data recorder according to claim 14 [[11]], wherein: said mounting base subsystem includes a first watertight cable connector for coupling with a power supply and a second cable connector for coupling with a data source.

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14. (Currently Amended) A hardened voyage data recorder according to claim 11, further comprising:
- (a) a removable memory subsystem;
 - (b) a mounting base subsystem, including a plurality of circuit components mounted entirely within said mounting base subsystem, removably coupled to said memory subsystem, wherein said removable memory subsystem includes non-volatile memory enclosed within a boiler, and said mounting base subsystem is adapted to be mounted on the exterior of a marine vessel; and
 - (c) a quick release clamp, wherein said removable memory subsystem has a lower flange, said mounting base subsystem has an upper flange, and said quick release clamp engages said upper flange and said lower flange whereby said memory subsystem and said base subsystem are removably coupled to each other.
15. (Original) A hardened voyage data recorder according to claim 14, wherein: said quick release clamp has two quick release levers.
16. (Original) A hardened voyage data recorder according to claim 14, wherein: one of said upper flange and said lower flange has a groove adapted to receive an O-ring.
17. (Original) A hardened voyage data recorder according to claim 14, wherein: said upper flange has two concentric grooves, each adapted to receive an O-ring.

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18. (Original) A hardened voyage data recorder according to claim 17, further comprising:
one o-ring and one mesh gasket, one disposed in one of said two concentric grooves
and the other disposed in the other of said two concentric grooves.
19. (Canceled)
20. (Previously Presented) A hardened voyage data recorder according to claim 22,
wherein: said mounting base subsystem includes at least one watertight cable
connector.
21. (Previously Presented) A hardened voyage data recorder according to claim 22,
wherein: said mounting base subsystem includes a first watertight cable connector for
coupling with a power supply and a second cable connector for coupling with a data
source.

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22. (Previously Presented) A hardened voyage data recorder comprising:
- (a) a removable memory subsystem;
 - (b) a mounting base subsystem removably coupled to said memory subsystem;
 - (c) at least one serial/parallel memory interface converter chip coupled to said removable memory subsystem; and
 - (d) a quick release clamp, wherein said removable memory subsystem has a lower flange, said mounting base subsystem has an upper flange, and said quick release clamp engages said upper flange and said lower flange whereby said memory subsystem and said base subsystem are removably coupled to each other.
23. (Original) A hardened voyage data recorder according to claim 22, wherein: said quick release clamp has two quick release levers.
24. (Original) A hardened voyage data recorder according to claim 22, wherein: one of said upper flange and said lower flange has a groove adapted to receive an O-ring.
25. (Original) A hardened voyage data recorder according to claim 22, wherein: said upper flange has two concentric grooves, each adapted to receive an O-ring.

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26. (Original) A hardened voyage data recorder according to claim 25, further comprising:
one o-ring and one mesh gasket, one disposed in one of said two concentric grooves
and the other disposed in the other of said two concentric grooves.
27. (Canceled)
28. (Previously Presented) A hardened voyage data recorder according to claim 30,
wherein: said mounting base subsystem includes at least one watertight cable
connector.
29. (Previously Presented) A hardened voyage data recorder according to claim 30,
wherein: said mounting base subsystem includes a first watertight cable connector for
coupling with a power supply and a second cable connector for coupling with a data
source.

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30. (Previously Presented) A hardened voyage data recorder comprising:
- (a) a removable memory subsystem, wherein said removable memory subsystem includes a stacked memory and a plurality of serial/parallel memory interface chips arranged for communication with a processor such that a large number of memory chips may be driven;
 - (b) a mounting base subsystem removably coupled to said memory subsystem;
and
 - (c) a quick release clamp, wherein said removable memory subsystem has a lower flange, said mounting base subsystem has an upper flange, and said quick release clamp engages said upper flange and said lower flange whereby said memory subsystem and said base subsystem are removably coupled to each other.
31. (Original) A hardened voyage data recorder according to claim 30, wherein: said quick release clamp has two quick release levers.
32. (Original) A hardened voyage data recorder according to claim 30, wherein: one of said upper flange and said lower flange has a groove adapted to receive an O-ring.
33. (Original) A hardened voyage data recorder according to claim 30, wherein: said upper flange has two concentric grooves, each adapted to receive an O-ring.

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34. (Original) A hardened voyage data recorder according to claim 33, further comprising:
one o-ring and one mesh gasket, one disposed in one of said two concentric grooves
and the other disposed in the other of said two concentric grooves.

35. (Canceled)